



US005414462A

United States Patent [19][11] **Patent Number:** **5,414,462****Veatch**[45] **Date of Patent:** **May 9, 1995****[54] METHOD AND APPARATUS FOR
GENERATING A COMPREHENSIVE
SURVEY MAP**5,265,173 11/1993 Griffin 348/147
5,267,042 11/1993 Tsuchiya 348/144**[76] Inventor:** **John W. Veatch**, 2022 Upperlake Dr.,
Reston, Va. 22091*Primary Examiner*—Howard W. Britton
Attorney, Agent, or Firm—Parkhurst, Wendel & Rossi**[21] Appl. No.:** **16,242****[57] ABSTRACT****[22] Filed:** **Feb. 11, 1993**

A method and apparatus for generating a comprehensive land survey map is provided in which an image base map of a geographical survey region and a legal description map for each land parcel or lot within the geographical survey region are stored in a geographic information system (GIS). A remote sensing device is utilized to collect precise position data at survey points located on, near or adjacent the parcel of interest. The precise position data generated by the remote device is supplied to the GIS, which uses the data to correlate and align the legal description map for the parcel of interest with a portion of the image base map to create a comprehensive survey map for the parcel.

[51] Int. Cl.⁶ H04N 7/18**[52] U.S. Cl. 348/135; 348/144;
348/147****[58] Field of Search 348/64, 135, 144, 147,
348/158, 211, 373, 376; H04N 7/18****[56] References Cited****U.S. PATENT DOCUMENTS**4,635,136 1/1987 Ciampa 348/96
5,166,789 11/1992 Myrick 348/144
5,200,793 4/1993 Ulich 348/31
5,247,356 9/1993 Ciampa 348/144**13 Claims, 6 Drawing Sheets**